



## Digital Innovations in Agriculture

Guest Editors:

**Prof. Dr. Gniewko Niedbała**

Department of Biosystems  
Engineering, Faculty of  
Environmental and Mechanical  
Engineering, Poznań University of  
Life Sciences, Wojska Polskiego  
50, 60-627 Poznań, Poland

**Dr. Sebastian Kujawa**

Department of Biosystems  
Engineering, Faculty of  
Environmental and Mechanical  
Engineering, Poznań University of  
Life Sciences, Wojska Polskiego  
50, 60-627 Poznań, Poland

Deadline for manuscript  
submissions:

**closed (20 February 2023)**

### Message from the Guest Editors

Dear Colleagues,

World population is increasing significantly. Meanwhile, observed climate change is accelerating and affecting the agricultural production strongly. These aspects bring new challenges to modern agriculture and the need to have high production efficiency combined with a high quality of obtained products in accordance with the principles of sustainable production. This applies to both crop and livestock production, as well as the other domains related to food production.

To meet these challenges, advanced digital innovation techniques are more and more frequently being used, including those based on machine learning, artificial neural networks, Internet of Things (IoT) and big data. They are widely applied in solving various optimization tasks in the agri-food production processes in the context of the increasing use of precision and digital farming technologies on the path from Agriculture 3.0 to 5.0.

We invite authors to submit all types of manuscripts, including original research, research concepts, communications, and reviews related to digital innovation, widely defined, in the agri-food sector.

Prof. Dr. Gniewko Niedbała

Dr. Sebastian Kujawa

Guest Editors





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

## Contact Us

---

Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
X@AgricultureMdpi